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## CLAIMS

What is claimed is:

A probe and connector assembly for use in a socketless fixture and for providing electrical contact with electrical circuits during testing thereof, said assembly comprising:

## a probe comprising:

an electrically conductive tubular housing; an electrically conductive plunger captively disposed in the electrically conductive tubular housing in electrically conductive contact therewith and having a circuit contacting tip urged outward from the housing under the force of a longitudinally compressed coil spring;

said tubular housing having a first end portion through which the plunger extends to the tip and by which the plunger is retained in the housing and a second end defining an opening; and an electrically conductive connector comprising:

a pin end sized to achieve an interference fit with said housing second end when disposed within said opening, said end pin providing electrically conductive connection between the connector and the probe when disposed within said opening; and

- a termination end having a wire jack receptacle for pluggably receiving a wire jack pin.
- The assembly of claim 1 wherein said connector includes at its termination end a tubular portion adapted to receive the wire jack pin with an interference fit. 30

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- The assembly of claim 1 wherein the connector has an annular barb formed on the exterior thereof to provide captive mounting in an opening within a fixture plate.
- The assembly of claim 1 wherein said connector has a 5 4. portion attached to said pin cvlindrical and said cylindrical body portion includes two annular externally extending beads for retaining said connector via a press fit in an opening within a fixture plate.
  - 5. The assembly of claim 1 wherein said connector includes a tapered portion of increasing diameter extending between said pin end and said body, said connector and probe forming a seal when the pin is disposed in assembled relation within said opening defined by said second end with said second end in circumferential abutting relation with said tapered portion of said connector.
- The assembly of claim 2 wherein the tubular portion of 20 the connector comprises a crimp portion to receive the wire jack pin with an interference fit.
- The assembly of claim 6 wherein the crimp portion includes slots through the wall of the tubular portion to 2.5 provide а crimped non-circular cross interference fit of an inserted wire jack pin.
- The assembly of claim 2 wherein the tubular portion includes one or more detents extending inward in the tubular portion to provide an interference fit with an inserted wire 30 jack pin.

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- For use in a test probe assembly of a socketless fixture and for providing electrical contact with electrical circuits during testing thereof, an electrically conductive connector comprising:
- a cylindrical body portion having at least one annular externally extending bead for retaining said connector in an opening within a fixture plate;

said body portion having a pin end sized to achieve an interference fit with a receptacle end of a test probe, said end pin providing electrically conductive connection between the connector and the test probe; and

said body portion having a termination end having a wire jack receptacle for pluggably receiving a wire jack pin.

- The connector of claim 9 wherein the termination end of the body portion includes a tubular crimp portion adapted to receive the wire jack pin with an interference fit.
- 11. The connector of claim 9 wherein said body portion includes a tapered portion of increasing diameter extending between said pin end and said body.
- The connector of claim 9 wherein the wire jack 25 12. receptacle of the connector includes a crimp portion to receive the wire jack pin with an interference fit.
- The connector of claim 12 wherein the crimp portion has 13. slots through the walls of the receptacle to provide a 30

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WRINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI LLP TEL. (617) 542-2290 FAX. (617) 451-0313 crimped non-circular cross section for receiving the wire jack pin with an interference fit.

- 14. The connector of claim 9 wherein the wire jack receptacle includes one or more detents extending inwardly into the receptacle to receive the wire jack pin with an interference fit.
  - 15. The connector of claim 14 wherein the receptacle includes a blind hole in the termination end and three detents equispaced about the circumference of the receptacle and an opening through the wall of the termination end near the blind end of the blind hole to facilitate the flow of a plating solution during plating of the receptacle.

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